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## NOTICE OF ALLOWANCE AND FEE(S) DUE

52025 7590 08/01/2011  
SAP AG c/o BUCKLEY, MASCHOFF & TALWALKAR LLC  
50 LOCUST AVENUE  
NEW CANAAN, CT 06840

EXAMINER	
CHEN, QING	
ART UNIT	PAPER NUMBER
2191	

DATE MAILED: 08/01/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,446	10/12/2006	Werner Aigner	2003P00548W0US (833,033)	4635

TITLE OF INVENTION: FRAMEWORK FOR A COMPOSITE APPLICATION AND A METHOD OF IMPLEMENTING A FRAME WORK FOR A COMPOSITE APPLICATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/01/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

## HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER:** Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

**PART B - FEE(S) TRANSMITTAL**Complete and send this form, together with applicable fee(s), to: **Mail Stop ISSUE FEE**

**Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
or Fax (571) 273-2885**

**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s). This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

52025            7590            08/01/2011  
**SAP AG c/o BUCKLEY, MASCHOFF & TALWALKAR LLC**  
50 LOCUST AVENUE  
NEW CANAAN, CT 06840

**Certificate of Mailing or Transmission**  
I hereby certify that the Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)

(Signature)

(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,446	10/12/2006	Werner Aigner	2003P00548WOUS (S33.033)	4635

**TITLE OF INVENTION: FRAMEWORK FOR A COMPOSITE APPLICATION AND A METHOD OF IMPLEMENTING A FRAME WORK FOR A COMPOSITE APPLICATION**

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/01/2011

EXAMINER	ART UNIT	CLASS-SUBCLASS
CHEN, QING	2191	717-104000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1\_\_\_\_\_

2\_\_\_\_\_

3\_\_\_\_\_

**3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)**

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY AND STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent):  Individual  Corporation or other private group entity  Government

**4a. The following fee(s) are submitted:**

- Issue Fee
- Publication Fee (No small entity discount permitted)
- Advance Order - # of Copies \_\_\_\_\_

**4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)**

- A check is enclosed.
- Payment by credit card. Form PTO-2038 is attached.
- The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

**5. Change in Entity Status (from status indicated above)**

- a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_

Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form or your suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,446	10/12/2006	Werner Aigner	2003P00548WOUS (S33.031)	4635
52025	7590	08/01/2011	EXAMINER	
SAP AG c/o BUCKLEY, MASCHOFF & TALWALKAR LLC 50 LOCUST AVENUE NEW CANAAN, CT 06840			CHEN, QING	
			ART UNIT	PAPER NUMBER
			2191	

DATE MAILED: 08/01/2011

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 965 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 965 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## **Privacy Act Statement**

**The Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

<b>Notice of Allowability</b>	<b>Application No.</b> 10/550,446	<b>Applicant(s)</b> AIGNER ET AL.
	<b>Examiner</b> QING CHEN	<b>Art Unit</b> 2191

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTO-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to the amendment filed on November 19, 2010.

2.  The allowed claim(s) is/are 1,4-7,9,12-15 and 17, renumbered as 1-11.

3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)  All b)  Some\* c)  None of the:

1.  Certified copies of the priority documents have been received.

2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_.

3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.

(a)  including changes required by the Notice of Draftperson's Patent Drawing Review ( PTO-948) attached  
1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_.

(b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of  
Paper No./Mail Date \_\_\_\_.

**Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**

6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

<input type="checkbox"/> Notice of References Cited (PTO-892)	<input type="checkbox"/> Notice of Informal Patent Application
<input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948)	<input type="checkbox"/> Interview Summary (PTO-133), Paper No./Mail Date ____.
<input type="checkbox"/> Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date ____.	<input checked="" type="checkbox"/> Examiner's Amendment/Comment
<input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material	<input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance
	<input type="checkbox"/> Other ____.

#### **DETAILED ACTION**

1. This Office action is in response to the amendment filed on November 19, 2010.
2. **Claims 1, 4-7, 9, 12-15, and 17** are pending.
3. **Claims 1, 4-7, 9, 12-15, and 17** have been amended.
4. **Claims 2, 3, 8, 10, 11, and 16** have been canceled.
5. **Claims 1, 4-7, 9, 12-15, and 17** are allowed, renumbered as 1-11.
6. The objections to Claims 1 and 4-8 are withdrawn in view of Examiner's amendments to the claims.

#### *Examiner's Amendment*

7. An Examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to Applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this Examiner's amendment was given in a telephone interview with Mark Steinberg (Reg. No. 40,829) on July 25, 2011.

The application has been amended as follows:

#### AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph on page 14, paragraph [0050] of the specification as follows:

In particular examples, layer 330 includes extensions to document management or content management that allow business objects to use the functionality for documents. For example, taxonomies for business objects, transparent indexing of ?????? TREX for structured and unstructured objects, and subscription services for dependent objects independent of the repository where the objects reside can be provided. Layer 330 can also provide transaction support, in as far as the transaction concept is also supported by concerned source systems, a metadata interface, allowing an application to be dynamically configured at run-time, and subscription services (e.g., J2EE publish and subscribe). Layer 330 can facilitate application building by configuration. This can be accomplished by providing standard interfaces with well-defined semantics, which allows components to be combined in a meaningful way and allowing objects to participate in a collaborative context, (e.g., chat room) by implementing certain interfaces. Service layer 340 provides services for business objects in layer 330. In general, services for business objects are common procedures that users need to interact effectively with the objects. A service layer can also provide other types of services, such as, for example, U-related service and/or collaboration services. Furthermore, the service layer can provide integration of external services.

Please amend the paragraph on page 16, paragraph [0055] of the specification as follows:

In a specific example, collaboration services are directly linked in the object modeling layer to business objects. Further, the object modeling layer includes a module 132 to derive object specific services from generic collaboration services. Each business object is a specific

instance of an object class. Module 132 can extend the object class by adding a generic collaboration service and operable to derive [[n]] an object class specific service from at lest least one generic collaboration service. For example, with the composite application framework (CAF), business objects are modeled. Besides the modeling of the business object data structure and core life cycle services such as "create," "edit," "delete," the object designer, for example, the user, can assign pre-configured or tailored collaboration services to the business object that represent best practice collaboration scenarios around the particular object. Such pre-configured or tailored services can be derivatives of generic collaboration services, such as "feedback," "rating," "voting," "discussion," "comments," and so forth. A derivative of a generic collaboration service is a generic collaboration service wherein a more specific functionality of the service has been derived. Such pre-configured can be Guided Procedure templates that represent more complex work procedures. Further, such pre-configured or tailored collaboration services can include simple collaborative actions that represent one-step ad hoc people-to-people coordination patterns.

#### AMENDMENTS TO THE CLAIMS

In the "Amendments to the Claims" (received on 11/19/2010), please cancel Claims 8 and 16 and amend Claims 1, 4-7, 9, 12-15, and 17 as follows:

1. (Currently Amended) Apparatus An apparatus comprising:  
a computer to provide a computer-implemented framework for a composite application,  
the computer-implemented framework comprising:

an object access layer to exchange data with enterprise base systems and to present the data to a composite application through a uniform interface;

a user interface (UI) layer to enable UI patterns that facilitate information exchange between the composite application and a user;

a business object modeling layer comprising a business object modeler to provide a user interface (UI) for constructing a business object; and

a service layer to enable services to the composite application, the service layer comprising a collaboration services module to enable collaboration services to the composite application, wherein the business object modeling layer directly linking links at least one of the collaboration services associated with the business object to the business object;

wherein the collaboration services module enables at least one generic collaboration service;

wherein the business object modeling layer that comprises the business object modeler to provide the user interface (UI) for constructing the business object comprises a module to derive at least one object specific service from the at least one generic collaboration service directly linked with the business object by the business object modeling layer; and

wherein the business object modeling layer that comprises the business object modeler to provide the user interface (UI) for constructing the business object is separate from the service layer that comprises the collaboration services module to enable collaboration services to the composite application.

4. (Currently Amended) The ~~computer implemented framework apparatus~~ of claim 1 further comprising a process modeler including a context modeler for modeling a context, wherein the business object modeling layer comprises a module arranged to derive an object specific service from the at least one generic collaboration service on the basis of the modeled context.

5. (Currently Amended) The ~~computer implemented framework apparatus~~ of claim 4 wherein each business object is a specific instance of an object class, and wherein the business object modeling layer comprises a module to extend the object class by adding a generic collaboration service and to derive an object class specific service from the at least one generic collaboration service.

6. (Currently Amended) The ~~computer implemented framework apparatus~~ of claim 5[[],] wherein the business object modeling layer [[is]] specializes the at least one generic collaboration service in accordance with the object class.

7. (Currently Amended) The ~~computer implemented framework apparatus~~ of claim 1 wherein the business object modeling layer is included in a design time component.

8. (Canceled)

9. (Currently Amended) A computer-implemented method of implementing a composite application in a framework, the computer-implemented method comprising:

accessing, by a computer, an object to exchange data with enterprise base systems and to present the data to a composite application through a uniform interface;

enabling, by a computer, a UI layer to provide UI patterns that facilitate information exchange between the composite application and a user;

modeling, by a computer, a business object to enable a user interface (UI) for constructing a business object;

enabling, by a computer, services to the composite application including providing collaboration services to the composite application, wherein the modeling comprises directly linking at least one of the collaboration services associated with the business object to the business object;

wherein the providing the collaboration services comprises enabling at least one generic collaboration service;

wherein the modeling comprises:

deriving at least one object specific service from the at least one generic collaboration service; and

providing [[an]] a business object modeling layer that comprises a business object modeler to provide the UI for constructing a business object; and

wherein the enabling services comprises:

providing a service layer that is to enable the services and is separate from the business object modeling layer.

12. (Currently Amended) The computer-implemented method of claim 9 further comprising modeling, by a computer, a process including context, wherein the modeling comprising comprises deriving an object specific service from the at least one generic collaboration service on the basis of the modeled context.

13. (Currently Amended) The computer-implemented method of claim 12 wherein each business object is a specific instance of an object class, and wherein the modeling comprises extending the object class by adding a generic collaboration service and deriving an object class specific service from the at least one generic collaboration service.

14. (Currently Amended) The computer-implemented method of claim 13 wherein the modeling comprises specializing the at least one generic collaboration service in accordance with the object class.

15. (Currently Amended) The computer-implemented method of claim 14 wherein the modeling step is carried out by a design time component.

16. (Canceled)

17. (Currently Amended) A computer program product comprising a machine readable storage device having instructions executable by a computer to cause the computer to perform a method comprising:

accessing an object to exchange data with enterprise base systems and to present the data to a composite application through a uniform interface;

enabling a UI layer to provide UI patterns that facilitate information exchange between the composite application and a user;

modeling a business object to enable a user interface (UI) for constructing a business object;

enabling services to the composite application including providing collaboration services to the composite application, wherein the modeling comprises directly linking at least one of the collaboration services associated with the business object to the business object;

wherein the providing the collaboration services comprises enabling at least one generic collaboration service;

wherein the modeling comprises:

deriving at least one object specific service from the at least one generic collaboration service; and

providing [[an]] a business object modeling layer that comprises a business object modeler to provide the UI for constructing a business object; and

wherein the enabling services comprises:

providing a service layer that is to enable the services and is separate from the business object modeling layer.

-- END OF AMENDMENT --

*Reasons for Allowance*

8. The following is an Examiner's statement of reasons for allowance:

The cited prior art taken alone or in combination fail to teach, in combination with the other claimed limitations, "wherein the collaboration services module enables at least one generic collaboration service; wherein the business object modeling layer that comprises the business object modeler to provide the user interface (UI) for constructing the business object comprises a module to derive at least one object specific service from the at least one generic collaboration service directly linked with the business object by the business object modeling layer; and wherein the business object modeling layer that comprises the business object modeler to provide the user interface (UI) for constructing the business object is separate from the service layer that comprises the collaboration services module to enable collaboration services to the composite application" as recited in independent Claim 1; and further fail to teach, in combination with the other claimed limitations, similarly-worded limitations as recited in independent Claims 9 and 17.

The closest cited prior art, the combination of US 6,789,252 (hereinafter "Burke") and US 6,199,195 (hereinafter "Goodwin"), teaches a method and apparatus for creating and applying dynamically defined business objects used in computer systems, for using such business objects to configure business software applications, and for facilitating the automated sharing of business information across a business enterprise or with other business enterprises or

customers. However, the combination of Burke and Goodwin fails to teach “wherein the collaboration services module enables at least one generic collaboration service; wherein the business object modeling layer that comprises the business object modeler to provide the user interface (UI) for constructing the business object comprises a module to derive at least one object specific service from the at least one generic collaboration service directly linked with the business object by the business object modeling layer; and wherein the business object modeling layer that comprises the business object modeler to provide the user interface (UI) for constructing the business object is separate from the service layer that comprises the collaboration services module to enable collaboration services to the composite application” as recited in independent Claim 1; and further fails to teach similarly-worded limitations as recited in independent Claims 9 and 17.

Any comments considered necessary by Applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

***Conclusion***

9. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Qing Chen whose telephone number is 571-270-1071. The Examiner can normally be reached on Monday through Thursday from 7:30 AM to 4:00 PM. The Examiner can also be reached on alternate Fridays.

Art Unit: 2191

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Wei Zhen, can be reached on 571-272-3708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC 2100 Group receptionist whose telephone number is 571-272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Q. C./

Examiner, Art Unit 2191

/WEI ZHEN/

Supervisory Patent Examiner, Art Unit 2191